

H-compact PLUS

Drive Technology

H-compact PLUS

The synthesis of a compact motor design and modular cooling

Overview

- General description
- Technical data overview
- Customer benefits
- Typical applications

General description

Highest power rating, reliability, efficiency and modular cooling system: This distinguishes the three-phase high-voltage motors of the H-compact PLUS series.

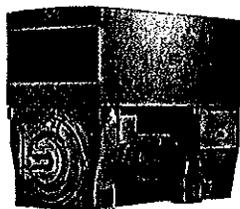
These motors are available in shaft heights 450, 500, 560 mm with a gray cast iron enclosure, as well as 630 and 710 mm with a steel enclosure in degree of protection IP55 or IP23 - air or water cooled.

The insulation and bearing system guarantees the highest degree of reliability.

The MICALASTIC insulation system with VPI impregnation offers high switching and reversing strength and has proven itself worldwide even under the toughest of application conditions: In extreme cold, heat, humid and aggressive environments.

The lifecycle costs are extremely important – and these make the H-compact PLUS motor so attractive.

H-compact PLUS motors save energy, require little maintenance and operate reliably over their long motor lifetime. An investment that pays back in a short time. H-compact PLUS motors are environmentally-friendly and can be recycled up to approx. 98%.



Technical data overview

Brief overview

Water-cooled motors:	1RN4, 1RN6
Air-cooled motors:	1RQ4, 1RQ6
Open-circuit ventilated motors:	1RA4, 1RP6
Shaft heights:	450, 500, 560, 630, 710 mm
Power range:	1000 to 11700 kW
No. of poles:	2 - 12 poles
Rated voltages:	3 to 13.8 kV
Drive converters:	SINAMICS GM/SM 150, ROBICON Perfect Harmony
Degree of protection:	IP55 (1RN4, 1RN6, 1RQ4, 1RQ6) IP23, WP II (1RA4, 1RP6)
Cooling type:	IC 01 (1RA4, 1RP6) IC 611, IC 616 (1RQ4, 1RQ6) IC 81 W, IC 86 W (1RN4, 1RN6)
Type of construction:	IM B3 (IM 1001), IM V1 (IM 3011) Up to shaft height 560 mm – gray cast iron enclosure
Enclosure:	Shaft heights 630 mm and 710 mm – steel enclosure
Bearings:	Roller bearings, sleeve bearings IEC, EN

More Information

- Catalogs and Brochures
- Service
- Branch Chemical Industry
- Branch Water / Waste water
- All about H-compact PLUS

Presales info

Catalog and ordering system online

Technical info

Support

Training

Contact & partners

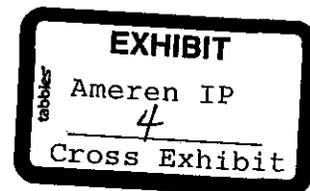
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ILL. C. C. DOCKET NO. 05-0767

Ameren IP Case Exhibit No. 4

Witness R. Dew

Date 1-13-11 Reporter CB



Regulations/Standards: NEMA, API
 Specifications, e.g. shipbuilding, oil & gas sector
Explosion protection: Ex nA II and Ex pe II (1RN4, 1RN6, 1RQ4, 1RQ6)

Customer benefits

Features	Customer benefits
Optimized for maximum compactness	High power with low envelope dimensions and weight
High efficiency and power factor	Low power costs
MICALASTIC high-voltage insulation using VPI technology	High degree of reliability and high service lifetime
Extensive experience and know-how regarding sector requirements and their implementation	Sector regulations and specifications can be complied with e.g. for marine (ship's classification societies), oil & gas (API)
690 V version for connection to a drive converter up to the highest power ratings	Favorably priced low-voltage technology for operation with a drive converter available
High-speed versions available with a speed control range up to 4500 rpm	In many cases a gearbox can be eliminated
Low noise level	High customer requirements and requirements of safety at work legislation are fulfilled

Typical applications

- Oil & Gas
- Chemical industry
- Steel industry
- Air separation
- Pulp & paper
- Water / waste water
- Power stations

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